UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584,724	06/27/2006	Aroop Kumar Banerjee	NP/USA/1	6098

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EXAMINER
COLUCCI, MICHAEL C

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____.
2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.
3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-9* is/are pending in the application.
    4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5)☐ Claim(s) _____ is/are allowed.
6)☒ Claim(s) *1-9* is/are rejected.
7)☐ Claim(s) _____ is/are objected to.
8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.
10)☒ The drawing(s) filed on *27 June 2006* is/are: a)☒ accepted or b)☐ objected to by the Examiner.
    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    a)☒ All b)☐ Some * c)☐ None of:
      1.☐ Certified copies of the priority documents have been received.
      2.☐ Certified copies of the priority documents have been received in Application No. _____.
      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

2.   Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Hachamovitch et al. US 6377965 B1 (hereinafter Hachamovitch) in view of Mani et al.

US 20030195741 A1 (hereinafter Mani).

Re claims 1 and 9, Hachamovitch teaches a computer system for input of Indic

text, the computer system comprising a screen and a data entry device for screen-

based data entry (Col. 14 lines 5-17, suggested list of entries), the computer system

being adapted to simultaneously run an Indic text entry program and application

software adapted to receive Indic text, the computer system including a screen and a

data entry device for screen-based data entry (Col. 14 lines 5-17, suggested list of

entries),

the Indic text entry program, when run by the computer system:

(i) generating a graphical user interface on the screen (Col. 14 lines 5-17, & Fig.

4B and 4C, suggested list of entries),

(ii) upon a user successively selecting Indic characters using the data input device and the graphical user interface, presenting the successively selected characters in a display area of the graphical user interface (Col. 14 lines 5-17, & Fig. 4B and 4C, suggested list of entries),

(iii) comparing the selected characters to a dictionary of items, and presenting to the user items from the dictionary are compatible with the selected characters (Col. 14 lines 5-17, & Fig. 4B and 4C, suggested list of entries);

(iv) upon the user selecting one of the presented items, registering the selection (Col. 14 lines 5-17, & Fig. 4B and 4C, suggested list of entries); and

(v) upon a command from the user, transferring the text to the application software (Col. 14 lines 5-17, & Fig. 4B and 4C, "Ok").

However, Hachamovitch fails to teach a computer system being adapted to simultaneously run an Indic text entry program and application software adapted to receive Indic text

Mani teaches In accordance with the present invention, a method and system for representing Indian languages using the English alphabet is provided. Indian characters are represented by the closest phonetic approximation in English. The present invention also uses as few English characters as possible to represent the corresponding Indian language text. The present invention allows users of the new method to use the same vowel forms whether the corresponding Indian language represents them as stand-alone vowels or as vowel symbols. Further, the present

invention gives the same meaning and value to a letter whether it appears as a capital

letter or a lower case lett1r (Mani [0016]).

Therefore, it would have been obvious to one of ordinary skill in the art at the

time of the invention to modify the system of Mani to incorporate a computer system

being adapted to simultaneously run an Indic text entry program and application

software adapted to receive Indic text as taught by Hachamovitch to allow for the use of

an english keyboard as a means to enter indic text, wherein the user will be able to use

as few English characters as possible to represent the corresponding Indian language

text (Mani [0016]).

Re claim 2, Hachamovitch teaches a computer system according to claim 1 in

which the graphical user interface presents the user with a number of first characters,

the text entry program, upon selecting one of the first characters, presenting the user

with one or more modifier characters compatible with the first character, and upon the

user selecting one of the modifier characters, forming a combination of the first

character with the modifier character (Col. 14 lines 5-17, & Fig. 4B and 4C, suggested

list of entries and text completion)

Re claim 3, Hachamovitch teaches a computer system according to claim 1 or

claim 2 in which, when there are multiple items in the dictionary which are compatible

with the selected characters (Col. 14 lines 5-17, & Fig. 4B and 4C, suggested list of

entries), the text entry program presents only a selection of them to the user based on a

frequency index associated with each item (Col. 2 lines 8-39, MRU, most recently used, & Fig. 4B and 4C, suggested list of entries).

Re claim 4, Hachamovitch teaches a computer system according to claim 3 which is operative to enable the user to vary the selection of compatible items (Col. 14 lines 5-17, & Fig. 4B and 4C, suggested list of entries).

Re claim 5, Hachamovitch teaches a computer system according to claim 3 or claim 4 in which the text entry program orders the selected items according to the frequency index with the highest frequency words appearing at the top (Col. 2 lines 8-39, MRU, most recently used, & Fig. 4B and 4C, suggested list of entries).

Re claim 6, Hachamovitch teaches a computer system according to any preceding claim further including a keyboard for inputting additional text into the application software (Fig. 1 element 40).

Re claim 7, Hachamovitch teaches a computer system according to claim 6 in which the keyboard is a Roman alphabet keyboard (Fig. 1 element 40).

Re claim 8, Hachamovitch teaches a computer system according to any preceding claim in which the application software is one of Wordpad, Microsoft Word,

Notepad, Yahoo chat, or Hotmail Messenger (Col. 9 lines 44-53, Microsoft Office,

WORD).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. US 20020146181 A1, US 20050017955 A1.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael C. Colucci whose telephone number is (571)-

270-1847. The examiner can normally be reached on 9:30 am - 6:00 pm, Monday-

Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richemond Dorvil can be reached on (571)-272-7602. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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